

Serial No. 10/812,132
Customer No. 24498

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PD030014 **CENTRAL FAX CENTER**
AUG 16 2007

Remarks/Arguments

Claims 1-8 are pending in this application, and are rejected in the final Office Action of May 17, 2007. Claims 1-8 are amended herein to more particularly point out and distinctly claim the subject matter Applicants regard as the invention.

Re: Claims 1-8

Claims 1-8 are rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 4,903,196 issued to Pomerene et al. (hereinafter, "Pomerene"). Applicant respectfully traverses this rejection since Pomerene fails to teach or suggest all elements of the claimed invention.

Applicant first notes that amended independent claims 1 and 5 recite:

"and wherein partial or intermediate second pipeline processing operands or results currently available in one or more of said pipeline stages are accessed by one or more other ones of said pipeline stages at the appropriate time instant or instants without access to said operand/result store

wherein said one or more other ones of said pipeline stages makes - or make - use of said data about location and said data about instruction type for accessing directly said currently required operand or result, or currently required operands or results, available in another one or in other ones of said pipeline stages, without accessing data stored in said operand/result store." (emphasis added; see claim 1), and

"and wherein partial or intermediate second pipeline processing operands or results currently available in one or more of said pipeline stages are accessed by one or more other ones of said pipeline stages at the appropriate time instant or instants without access to said operand/result store ...

wherein said one or more other ones of said pipeline stages use said data about location and said data about instruction type for accessing directly said currently required operand or result, or currently required operands or results, available in another one or in other ones of said pipeline stages, without accessing data stored in said operand/result store." (emphasis added; see claim 5)

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As indicated above, independent claims 1 and 5 respectively define a method and apparatus in which a given pipeline stage in a chain of succeeding pipeline stages accesses data directly from another pipeline stage based on corresponding location data and instruction type data without accessing data from a operand/result store.

Pomerene fails to teach or suggest, *inter alia*, the aforementioned feature of independent claims 1 and 5. In formulating the instant rejection, the Examiner cites various passages of Pomerene, but does not specifically allege how the elements of Pomerene correspond to the elements of independent claims 1 and 5. Applicants assume, however, that the Examiner alleges that memory 14 of Pomerene corresponds to the claimed "operand/result store" and that general purpose registers (GPRs) 16 together with execution units 18 of Pomerene correspond to the claimed "chain of succeeding pipeline stages" (see FIGS. 1 and 2 of Pomerene).

With the foregoing interpretation in mind, Applicant notes that Pomerene fails to teach or suggest, *inter alia*, the aforementioned feature of independent claims 1 and 5 in which a given pipeline stage in the chain of succeeding pipeline stages accesses data directly from another pipeline stage based on corresponding location data and instruction type data without accessing data from the operand/result store. In particular, in Pomerene, execution units 18 get their data to be executed (the claimed "operands or results") from memory 14 (the claimed "operand/result store"), but not directly from GPRs 16 (a store/register within the "pipeline stages") without accessing memory 14, as claimed. Accordingly, Pomerene fails to teach or suggest the aforementioned feature of independent claims 1 and 5 in which a given pipeline stage in the chain of succeeding pipeline stages accesses data directly from another pipeline stage based on corresponding location data and instruction type data without accessing data from the operand/result store. In view of Pomerene's failure to teach or suggest all elements of independent claims 1 and 5, withdrawal of the rejection is respectfully requested.

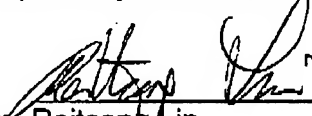
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Conclusion

In view of the foregoing remarks/arguments and accompanying amendments, the Applicant believes this application stands in condition for allowance. Accordingly, reconsideration and allowance are respectfully solicited. If, however, the Examiner is of the opinion that such action cannot be taken, the Examiner is invited to contact the Applicant's attorney at (609) 734-6813, so that a mutually convenient date and time for a telephonic interview may be scheduled. Please charge any fees to Deposit Account 07-0832.

Respectfully submitted,


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